

Recovery Plan Action Status

Plan Name: Devils River Minnow Recovery Plan

Plan Status: Final

Plan Date: 13-Sep-05

Lead Agency: USFWS

Lead Office: Austin Ecological Services Field Office

(512)

490-0057)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Devils River minnow (Dionda diaboli)	1	1.1.1	Monitor distribution and abundance in Texas.	Ongoing Current	FY 2005		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Research: Population Surveys	Labor type not yet selected	Action priority 1b
Devils River minnow (Dionda diaboli)	1	1.1.2	Assess distribution and abundance in Mexico.	Ongoing Current	FY 2006		Mexico, International Boundary and Water Commission, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Research: Population Surveys	Contract	Action priority 1b. Provided Section 6 funding this year.
Devils River minnow (Dionda diaboli)	1	1.1.3	Assess and monitor threats to Texas and Mexico populations.	Ongoing Current	FY 2005		Mexico, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Research: Habitat Status	Labor type not yet selected	Action priority 1b
Devils River minnow (Dionda diaboli)	2	1.1.4	Evaluate geographic variation in the species' genetic structure.	Ongoing Current	FY 2005		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Research: Genetics	Internal Field Assistance, Internal Technical Assistance, Species Expert	San Marcos National Fish Hatchery and Technology Center

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Devils River minnow (Dionda diaboli)	2	1.2.1	Study competition with coexisting species.	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Work type not yet selected	Labor type not yet selected	
Devils River minnow (Dionda diaboli)	1	1.2.2	Study reproductive variables.	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Work type not yet selected	Labor type not yet selected	Action priority 1b
Devils River minnow (Dionda diaboli)	2	1.2.3	Investigate predation by other species.	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Work type not yet selected	Labor type not yet selected	
Devils River minnow (Dionda diaboli)	2	1.2.4	Determine early life history characteristics and survivorship.	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Work type not yet selected	Labor type not yet selected	
Devils River minnow (Dionda diaboli)	3	1.2.5	Investigate disease and parasites.	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Work type not yet selected	Labor type not yet selected	
Devils River minnow (Dionda diaboli)	1	1.2.6	Study effects of aquatic non-native species.	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Research: Competition, Research: Management Techniques	Internal Field Assistance, Internal Technical Assistance	Action priority 1b. Funded by TPWD through the State Wildlife Grant.

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Devils River minnow (Dionda diaboli)	2	1.3.1	Determine physical habitat preferences.	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Work type not yet selected	Labor type not yet selected	
Devils River minnow (Dionda diaboli)	2	1.3.2	Determine chemical habitat preferences and tolerances (water quality).	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Universities, Texas Parks and Wildlife Department, Texas Commission on Environmental Quality	Work type not yet selected	Labor type not yet selected	
Devils River minnow (Dionda diaboli)	1	1.3.3	Determine relationships of stream flow and habitat availability.	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Universities, Texas Parks and Wildlife Department	Work type not yet selected	Labor type not yet selected	Action priority 1b
Devils River minnow (Dionda diaboli)	1	1.3.4	Determine stream flows needed for habitat maintenance.	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Work type not yet selected	Labor type not yet selected	Action priority 1b
Devils River minnow (Dionda diaboli)	3	1.3.5	Study effects of riparian management strategies.	Not Started			Texas Department of Agriculture, U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Texas Agricultural Extension Service , Natural Resources Conservation Service , Local Partners	Work type not yet selected	Labor type not yet selected	

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Devils River minnow (Dionda diaboli)	1	1.3.6	Investigate regional hydrogeology.	Not Started			U.S. Geological Survey, Water Resources Division, Universities, Texas Nature Conservancy , Texas Water Development Board	Work type not yet selected	Labor type not yet selected	Action priority 1b
Devils River minnow (Dionda diaboli)	1	1.4.1	Seek and maintain the cooperation of landowners and government agencies.	Ongoing Current	FY 2006		All partners and stakeholders	Other	Internal Administrative, Internal Field Assistance, Internal Technical Assistance	Action priority 1a; Austin ESFO
Devils River minnow (Dionda diaboli)	1	1.4.2	Ensure protection for certain stream segments and their watersheds.	Not Started			Texas Parks and Wildlife Department, Texas Nature Conservancy , Local Partners, Texas Commission on Environmental Quality	Work type not yet selected	Labor type not yet selected	Action priority 1a
Devils River minnow (Dionda diaboli)	1	1.4.3	Develop and implement groundwater management plans for stream flow protection.	Not Started			Local Partners, Texas Water Development Board	Work type not yet selected	Labor type not yet selected	Action priority 1a
Devils River minnow (Dionda diaboli)	1	1.4.4	Monitor stream flows.	Not Started			International Boundary and Water Commission, U.S. Geological Survey, Water Resources Division, Texas Commission on Environmental Quality, Texas Water Development Board	Work type not yet selected	Labor type not yet selected	Action priority 1b
Devils River minnow (Dionda diaboli)	1	1.4.5	Monitor existing physical and chemical habitats.	Not Started			Mexico, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Work type not yet selected	Labor type not yet selected	Action priority 1b

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Devils River minnow (Dionda diaboli)	2	1.4.6	Restore and enhance habitat conditions.	Not Started			Mexico, Texas Department of Agriculture, U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Texas Nature Conservancy, Natural Resources Conservation Service, Local Partners	Work type not yet selected	Labor type not yet selected	costs not defined for FY 2005 - 2014
Devils River minnow (Dionda diaboli)	1	1.4.7	Reduce pollutants.	Not Started			Texas Department of Agriculture, U.S. Environmental Protection Agency, Local Partners, Texas Commission on Environmental Quality	Work type not yet selected	Labor type not yet selected	Action priority 1a; costs not defined for FY 2005 - 2014
Devils River minnow (Dionda diaboli)	1	1.5	Establish and implement procedures to prevent introduction of exotic species and control problem exotic species.	Not Started			Texas Parks and Wildlife Department, Local Partners	Work type not yet selected	Labor type not yet selected	Action priority 1a; costs not defined for FY 2005 - 2014
Devils River minnow (Dionda diaboli)	1	1.6	Develop a recovery strategy for Mexican populations.	Not Started			Mexico, International Boundary and Water Commission, U.S. Fish and Wildlife Service	Management: Planning	Internal Administrative, Internal Technical Assistance	Action priority 1b
Devils River minnow (Dionda diaboli)	1	1.7	Assess effectiveness of recovery management actions.	Ongoing Current	FY 2006		Mexico, U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Research: General	Internal Administrative	Action priority 1b; Austin ESFO
Devils River minnow (Dionda diaboli)	1	2.1	Develop landowner agreements to reintroduce in former site(s) of occurrence.	Ongoing Current	FY 2006		U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Local Partners	Management: Reintroduction	Internal Administrative	Action priority 1b; Austin ESFO
Devils River minnow (Dionda diaboli)	1	2.2.1	Assess future spring flows at reintroduction site(s).	Not Started			U.S. Geological Survey, Water Resources Division, Universities, Texas Water Development Board	Work type not yet selected	Labor type not yet selected	Action priority 1b; costs not defined for FY 2007 - 2014

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Devils River minnow (Dionda diaboli)	1	2.2.2	Ensure adequate water quality protection at reintroduction site(s).	Not Started			U.S. Environmental Protection Agency, Local Partners, Texas Commission on Environmental Quality	Work type not yet selected	Labor type not yet selected	Action priority 1b; costs not defined for FY 2005 - 2014
Devils River minnow (Dionda diaboli)	1	2.2.3	Develop and implement stream channel restoration projects at reintroduction site(s), if necessary.	Not Started			U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Local Partners	Work type not yet selected	Labor type not yet selected	Action priority 1b; costs not defined for FY 2005 - 2014
Devils River minnow (Dionda diaboli)	1	2.3	Develop and implement a reintroduction plan.	Not Started			U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department, Nongovernmental Organizations , Local Partners	Work type not yet selected	Labor type not yet selected	Action priority 1a
Devils River minnow (Dionda diaboli)	1	3.1	Develop and implement a genetics management plan.	Ongoing Current	FY 2006		U.S. Fish and Wildlife Service, Universities, Texas Parks and Wildlife Department	Management: Other, Management: Planning	Internal Administrative, Internal Technical Assistance	Action priority 1b; San Marcos National Fish Hatchery and Technology Center
Devils River minnow (Dionda diaboli)	1	3.2	Maintain captive populations in at least two appropriate facilities.	Ongoing Current	FY 2005		U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Nongovernmental Organizations	Management: Propagation	Internal Field Assistance, Internal Technical Assistance	Action priority 1a: San Marcos National Fish Hatchery and Technology Center
Devils River minnow (Dionda diaboli)	3	4.1	Develop an outreach strategy.	Not Started			U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department	Work type not yet selected	Labor type not yet selected	
Devils River minnow (Dionda diaboli)	3	4.2	Prepare and distribute information pamphlet.	Not Started			U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department	Work type not yet selected	Labor type not yet selected	
Devils River minnow (Dionda diaboli)	3	4.3	Produce and maintain an outreach website.	Not Started			Texas Parks and Wildlife Department, Nongovernmental Organizations	Work type not yet selected	Labor type not yet selected	
Devils River minnow (Dionda diaboli)	3	4.4	Construct an informational kiosk for the City of Del Rio on San Felipe Creek.	Not Started			U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Local Partners	Work type not yet selected	Labor type not yet selected	

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Devils River minnow (<i>Dionda diaboli</i>)	3	5.1	Develop a post-delisting monitoring plan for the Devils River minnow	Not Started			U.S. Fish and Wildlife Service, Texas Parks and Wildlife Department, Local Partners	Work type not yet selected	Labor type not yet selected	